

DC-67-110GHz Continuous Diplexer

DC-67-110GHz/1.0mm Female/WR-10

Model: TMDX-67G110G-10-1.0

TMDX-67G110G-10-1.0 is a continuous Diplexer that operates from DC to 110 GHz. The diplexer offers a typical insertion loss of 2 dB. All ports exhibit good impedance matching for transmit- receive duplexing applications across the operating band. The diplexer is configured as an inline package with 1.0mm coaxial connectors and WR-10 waveguides and UG-387/U-M anti-cocking flanges.

Features:

- Frequency range: DC-110GHz
- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

- Test Lab
- Sub-assemblies
- Test Instrumentations

电气特性 Electrical Characteristics:

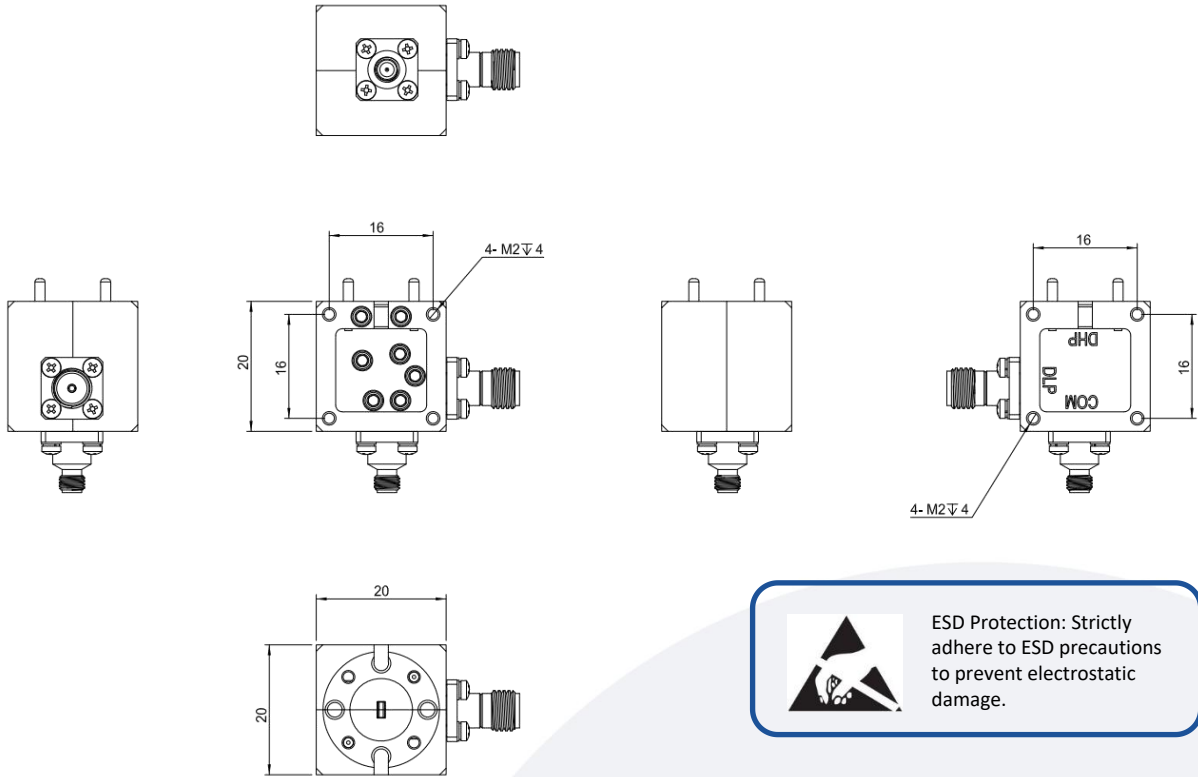
参数 Parameter	最小 Min	典型 Typ	最大 Max	最小 Min	典型 Typ	最大 Max	单位 Units
	RF_DLP			RF_DHP			
频率范围 Frequency range	DC		67	67		110	GHz
插损 Insertion Loss		2			2		dB
端口隔离 Port Isolation		30dB @80GHz			30dB @55GHz		dB
输入回波损耗 Input Return Loss		-10			-10		dB
同轴端口阻抗 Coaxial- port Impedance		50			50		Ohms

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
总端口 Common connector	1.0mm Female	
低频端口 Low Band connector	1.0mm Female	
高频端口 High Band connector	WR-10/UG-387/U	
尺寸 Size	20*20*20	mm
材质 Material	Brass	
表面处理 Finish	Gold plated	

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

温度环境 Environmental Conditions:

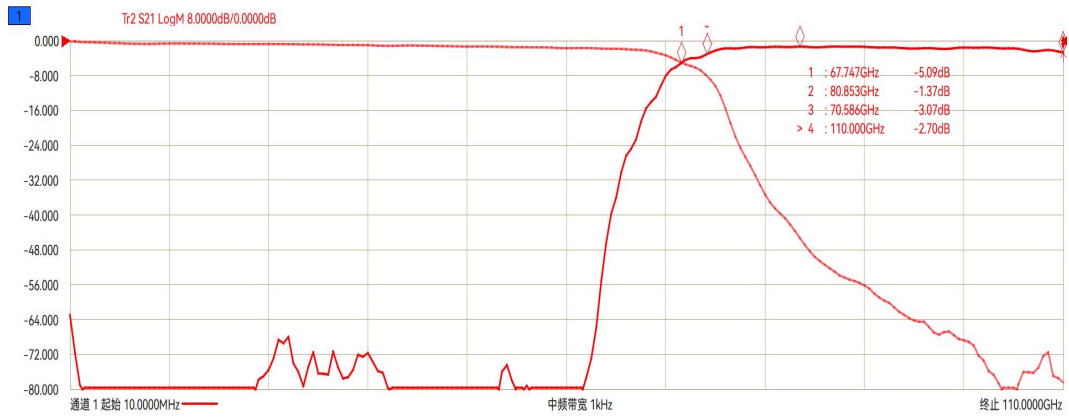
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TMDX-67G110G-10-1.0	3-port continuous diplexer , DC-67-110GHz, Insertion loss: 2dB(type), Return loss: 10dB(type)	Rev.1.0

典型曲线 Typical Performance Data:

Insertion Loss vs Frequency



Return Loss vs Frequency

